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CERRO COPPER & BRASS COMPANY

DIVISION OF CERRO CORPORATION

INTERNAL MEMORANDUM

Form HQ-10 SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

TO: Paul Tandler, Technical Manager

DATE: October 13, 1970

FROM: Al Suhre, Superintendent of Maintenance

SUBJECT: Water Treatment Observation by Nalco

A complete report will be presented within the next 10 days, however, during a discussion with Mr. Don Manlove of Nalco on Friday, 10/9/70, the following preliminary observations and recommendations were made.

1. The chromate in the anode furnaces' tower is consistently low and should have the following treatment; for every 10# of 360 balls, add one (1) gallon 345 to be continued until chromates reach the desired level.

2. The Waste Heat and Cleaver Brooks Boilers need a great deal of attention given to the Deaireater and Zeo-lite. The water temperature in the Deaireator is too low to prevent 0_2 pitting and the Zeo-lite is not being backflushed sufficiently to enable it to absorb the dissolved solids. We are now in the process of replenishing the Zeolite and gravel in the two units. A complete overhaul of the Deaireator is impending.

3. With regard to the boilers, Mr. Manlove feels there is a lack of communication between the Lab and whoever performs the service primarily regarding blow down.

4. The Cooling Towers in the Tube Mill should have drip feeders installed so that the Liquid 345 can be admitted, as well as the 360 ball feed.

5. The boiler generators on No. 2 and No. 3 B.A.F. treatment should be changed to 749 ball treatment at once, in order to try to clear up the scaling. A careful check of carry off of dissolved solids in the steam should be made.

6. At present there is no treatment on B.A.F. #5 tower, Joy Compressor and the closed loop for the Ajax Heaters. These should and will be instituted as soon as necessary equipment* can be purchased and installed.

7. I questioned whether there was a possible solution to the system used on the rectifiers in the Electrolytic Department and was informed there is a possible economical solution. I will await Mr. Manloves' report on this.

8. An excess of water overflow in cooling towers is one primary cause of poor results in treatment, as well as additional cost.

* The necessary equipment amounts to several drip feeders and possibly one or more containers for balls.

AS/as